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A first in its field, this book is both an introduction to computer simulation of liquids for upper level undergraduates and a how-to guide for specialists. The authors discuss the latest simulation techniques of molecular dynamics and the Monte Carlo methods as well as how to avoid common programming pitfalls. Theoretical concepts and practical programming advice are amply reinforced with examples of computer simulation in action and samples of Fortran code. The authors have also included a wide selection of programs and routines on microfiche to aid chemists, physicists, chemical engineers, and computer scientists, as well as graduate and advanced students in chemistry.